

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

LISTING OF CLAIMS:

15. (New) Double-row antifriction bearing comprising:
 - one-piece bearing ring;
 - split bearing ring divided into two parts in an axial direction of the bearing;
 - rolling elements located between the one-piece bearing ring and the split bearing ring;
 - the rolling elements comprising a first row of rolling elements possessing a first diameter and a second row of rolling elements possessing a second diameter which is different from the diameter of the rolling elements of the first row of rolling elements;
 - the rolling elements being balls made of ceramic material;
 - a contact angle of the first row of rolling elements being different from the contact angle of the second row of rolling elements; and
 - a pitch circle of the first row of rolling elements being different from the pitch circle of the second row of rolling elements.

16. (New) Antifriction bearing as claimed in claim 15, wherein the one-piece bearing ring is an outer ring of the antifriction bearing and the split bearing ring is an inner ring of the antifriction bearing.

17. (New) Antifriction bearing as claimed in claim 15, wherein the contact angle of the first row of rolling elements is in the range between 5° and 35° .
18. (New) Antifriction bearing as claimed in claim 17, wherein the contact angle of the second row of rolling elements is in the range between 10° and 60° .
19. (New) Antifriction bearing as claimed in claim 16, wherein the outer ring has a flange molded on in one piece.
20. (New) Antifriction bearing as claimed in claim 19, wherein the flange is with respect to its axial position located at a position of one of the rows of rolling elements.
21. (New) Antifriction bearing as claimed in claim 15, further comprising lubrication openings in a contact area of front surfaces of the split bearing ring.
22. (New) Antifriction bearing as claimed in claim 16, wherein the outer ring is provided with lubrication openings.
23. (New) Antifriction bearing as claimed in claim 15, wherein the first and second rows of rolling elements have cages which are guided on one shoulder of at least one of the bearing rings.

24. (New) Antifriction bearing as claimed in claim 23, wherein the cages are guided on a shoulder of the split bearing ring.

25. (New) Antifriction bearing as claimed in claim 23, wherein the cages are made of plastic.

26. (New) Antifriction bearing as claimed in claim 15, wherein the antifriction bearing is an angular contact bearing.

27. (New) Antifriction bearing as claimed in claim 15, wherein the antifriction bearing is a component of a transmission which in operation has a very high rpm and high temperature.

28. (New) Antifriction bearing as claimed in claim 16, wherein the outer ring is provided with lubrication holes.

29. (New) Antifriction bearing as claimed in claim 23, wherein the cages are made of PEEK.

30. (New) Antifriction bearing as claimed in claim 15, wherein the antifriction bearing is a component of a transmission in a race car.